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buffers + (transfer or move) + (entry or elemen

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Integration of Message Passing and Shared Memory in the Stanford FLASH Multiprocessor J Heinlein, K Gharachorloo, S Dresser, A Gupta, ... - ACM SIGOPS Operating Systems Review, 1994 - portal.acm.org ... its dedicated data paths to efficiently transfer data while ... These buffers form an array of cache line sized reg ... is implemented as a single entry that represents ... Cited by 70 - Web Search - portal.acm.org - www-flash.stanford.edu - www-flash.stanford.edu

A design space and design rules for user interface software architecture

TG Lane, PDF File, PS File - 1990 - sei.cmu.edu

... DTIC provides acess to and transfer of scientific and ... of expressing software engineering knowledge [Lane 90b ... physical interpretations (eg, "draw line," but not ... Cited by 8 - View as HTML - Web Search - sei.cmu.edu - sei.cmu.edu - all 4 versions » - Library Search

The Stanford FLASH Multiprocessor

J Kuskin, D Ofelt, M Heinrich, J Heinlein, R ... - ISCA, 1994 - portal.acm.org ... contains a specialized data path optimized to move data between ... and a base block-transfer protocol we have designed for ... cessor, a link to the next entry in ... Cited by 489 - Web Search - vlsi.csl.cornell.edu - pag.lcs.mit.edu - cs.fau.de - all 21 versions »

MECHANICAL SYSTEM FOR ON-LINE FRUITS SORTING AND GRADING USING MACHINE VISION TECHNOLOGY

SM Iqbal, D Ganesan, PS Rao - isu.iisc.ernet.in

... The ball nut continues to move down until it contacts the spindle frame. ... This gives the line scan camera a clear view of the apple cheek. ... View as HTML - Web Search

BRIDGE ARCHITECTURE, PERFORMANCE, AND MANAGEMENT

N Linge, E Ball, R Tasker, P Kummer - Telecommunications, 1989. Second IEE National Conference on, 1989 ieeexplore.ieee.org

... access protocols and are able to transfer frames to ... The remaining buffers constitute the frame transmission queues ... for end-stations apparently to move from one ... Web Search - ieeexplore.ieee.org

Technical Research Report

G Atallah, M Ball, J Baras, S Goli, R Karne, S ... - techreports.isr.umd.edu ... As an example, the operator can move a "slider ... E1 rates, employing the Asynchronous Transfer Mode (ATM ... packets, ODLC link downs, and Inroute/Outroute Buffers. ... View as HTML - Web Search

Mechanisms Involved IN Target Sequence Recognition AND Integration OF Human LINE-1 Retrotransposons

N Zingler - chemie.uni-hamburg.de

... 2.4.8.2 Transfer of DNA onto nylon membranes ... HGWD human genome working draft kb kilobasepairs kDa kilodalton L1 the human LINE-1 element LINE long interspersed ... View as HTML - Web Search - chemie.uni-hamburg.de

Achieving holonic control-an incremental approach.

J Jarvis, D Jarvis, D McFarlane - Computers in Industry, 2003 - agent-software.com ... Two buffers, which presents ... The table can move between two positions - one with jig1 adjacent ... the CNC axes, the chuck, the spindle, the transfer mechanism or ...



data + buffers + (transfer or move)

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Decoupling Synchronization and Data Transfer in Message Passing Systems of Parallel Computers

T Stricker, JM Stichnoth, DR O'Hallaron, S ... - International Conference on Supercomputing, 1995 - www-2.cs.cmu.edu
... is invoked on the receiver to move the data ... the first method (ctrl-msgs), each data
transfer is accompanied by ... mes- sage, thus ensuring that the buffers can be ...

Cited by 35 - View as HTML - Web Search - cs.cmu.edu - cs.inf.ethz.ch - portal.acm.org - all 15 versions »

SABUL: A High Performance Data Transfer Protocol

Y Gu, X Hong, M Mazzucco, RL Grossman - submitted to IEEE Communications Letters, 2003 - rgrossman.com ... being sent and received every second, the **data move** in the ... Provide reliable **data transfer** (reliability ... sender side buffer is a list of application **data buffers**. ... Cited by 15 - View as HTML - Web Search - dataspaceweb.net - bat710.univ-lyon1.fr - lac.uic.edu - all 7 versions »

The Impact of Data Transfer and Buffering Alternatives on Network Interface Design

SS Mukherjee, MD Hill - HPCA, 1998 - ieeexplore.ieee.org
... can be coalesced in the coalesc- ing **buffers** and transferred ... a processor to **move**a block of **data** between a ... Finally, block **transfer** over the memory bus can be ...
Cited by 10 - Web Search - ccse.kfupm.edu.sa - cs.wisc.edu - lost-contact.mit.edu - all 13 versions »

Fbufs: A High-Bandwidth Cross-Domain Transfer Facility

P Druschel, LL Peterson - ACM SIGOPS Operating Systems Review, 1993 - portal.acm.org ... has no future need for the buffer's data. ... copy semantics can be achieved by simply sharing buffers. ... originator to write to the buffer after the transfer. ...

Cited by 261 - Web Search - cs.arizona.edu - cse.nd.edu - sar.informatik.hu-berlin.de - all 5 versions »

Reliable Blast UDP: Predictable High Performance Bulk Data Transfer

E He, J Leigh, O Yu, TA DeFanti - CLUSTER, 2002 - ieeexplore.ieee.org ... network pipe as full as possible during bulk data transfer. ... moving data from the kernel buffer to application buffers. ... that in a real application, data is not ... Cited by 60 - Web Search - doi.ieeecomputersociety.org - cs.huji.ac.il - evl.uic.edu - all 9 versions »

An Object-Oriented Implementation of the Xpress Transfer Protocol

WT Strayer, S Gray, R CLINE, JR N D E - 1994 - ir.bbn.com
... Specifically, we have implemented the Xpress **Transfer** Protocol [1 ... The user writes
data into these **buffers** and issues ... the size and location of the received data. ...

Cited by 11 - View as HTML - Web Search - intrepid.mcs.kent.edu - dancer.ca.sandia.gov - portal.acm.org - all 9 versions »

Coherent Block Data Transfer in the FLASH Multiprocessor

J Heinlein, K Gharachorloo, RPB Jr., M Rosenblum, ... - IPPS, 1997 - doi.ieeecomputersociety.org ... in the system, the block **transfer** protocol must ... to efficiently obtain the latest data and maintain coherence of the source and destination **buffers**. ... Cited by 7 - Web Search - doi.ieeecs.org - ipdps.cc.gatech.edu - ipdps.eece.unm.edu - all 8 versions »

A New Network Processor Architecture for High-Speed Communications

X Nie, L Gazsi, F Engel, G Fettweis - IEEE Workshop on Signal Processing Systems (SiPS), 1999 - ifn.et.tu-dresden.de ... The memory **buffers** can be separated for the communication interface **data** from those ... it possible to use another bus width for the fast **transfer** of payload ... Cited by 29 - View as HTML - Web Search - cse.unsw.edu.au - ieeexplore.ieee.org - it.korea.ac.kr

Applied Techniques for High Bandwidth Data Transfers across Wide Area Networks



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data + buffers + (transfer or move)

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IBM Tivoli Storage Manager for AIX: Administrator's Reference ...

MOVE NODEDATA (Move Data by Node in a Sequential Access Storage Pool) ...

RESET BUFPOOL (Reset the Database Buffer Pool Statistics) ...

publib.boulder.ibm.com/infocenter/ tivihelp/v1r1/topic/com.ibm.itsmaixn.doc/anrarf5302.htm - 88k - Cached - Similar pages

<u>Technology | Mammoth | Adaptive Data Buffering - Exabyte</u>

Streaming occurs when the data transfer rate to or from the host closely matches

the tape ... MammothTape™ technology's data buffer is also adaptive. ...

www.exabyte.com/technology/ mammoth/intro/adaptivedatabuffering.cfm - 43k - Cached - Similar pages

Message Transfer Agent Tuning

Additionally, X.400 connectors and mailbox move operations require the MTA. ...

DB data buffers per object This value is the number of database server ...

www.microsoft.com/.../exchange/guides/ E2k3Perf | ScalGuide/d3c91edc-a5b7-4620-97f1-ef3c37c3a3a1.mspx - 23k -

Cached - Similar pages

[PDF] benefits of a large data buffer

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tions that create the need to move data extended distances over Fibre Channel links.

... If congestion on the PCI bus occurs, the HBA data buffer can serve ...

www.emulex.com/products/white/fc/buffer.pdf - Similar pages

a scsicmd(8) command table for use with an EXB-210 tape library ...

COMMAND: move medium (move): CMD WRITE CDB: command descriptor block (cdb): 12

... number of data transfer elements (ndte) BUFFER + 24: transport geometry ...

cns.utoronto.ca/~pkern/stuff/exb-210.scsicmd - 9k - Cached - Similar pages

Audio/Video FAQ

Internal transfer rate is the rate at which a drive can move ... Increasing the cache buffer segment size, which will maximize the data prefetch feature of ...

www.seagate.com/support/kb/disc/av.html - 19k - Cached - Similar pages

HP 3000 Manuals

Data Transfer Method D This data transfer method lets you move data to and from the

... Use this transfer method when the application data buffer does not ...

docs.hp.com/cgi-bin/doc3k/B3242490002.10134/31 - 8k - Cached - Similar pages

Central processing unit with improved stack register operation

The internal data bus D is connected, through a data buffer memory (DB) 31, ...

After the time t.sub.2, when the data transfer instruction MOVE and the ...

www.freepatentsonline.com/us5001629.html - 41k - Cached - Similar pages

Embedded.com - The best way to move multimedia data

For example, the DMA controller might be optimized to transfer a data word on

... These functions help ensure that data buffers do not overflow due to DMA ...

www.embedded.com/showArticle.jhtml?articleID=16700107 - 96k - Cached - Similar pages

New Data Transfer Capabilities

One of the new capabilities now available is improved data transfer ... Now that you have some background information, let's move on to some real code. ...

java.sun.com/developer/technicalArticles/releases/data/ - 46k - Cached - Similar pages



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Web Results 1 - 10 of about 86,000 for <u>buffers</u> + (transfer or move) + (entry or element or lane or line). (0.26 seconds)

FM 101-5-1, Operational Terms and Graphics, Chapter 1, J,K,L

lane - A route through an enemy or friendly obstacle that provides a passing ... line of demarcation (LOD) - A line defining the boundary of a buffer zone ... www.fas.org/man/dod-101/army/docs/fm101-5-1/f545-jk.htm - 38k - Cached - Similar pages

Untitled Document

Add one standard lane each direction: County Line to Milpas ... Corridor to more efficiently regulate the entry of 101 traffic and buffer freeway flow from ... www.101inmotion.com/glossary/glossary.html - 42k - Cached - Similar pages

The Stanford FLASH Multiprocessor

For efficiency, the first element of the sharer list is stored in the directory ... Staging data through data buffers allows the data transfer logic to ... www-flash.stanford.edu/architecture/papers/ISCA94/ - 66k - Cached - Similar pages

Integration of Message Passing and Shared Memory in the Stanford ...

... as a single entry that represents the head element in the queue. ... Loading the next memory line into the second buffer where the first left off will ... www-flash.stanford.edu/architecture/papers/flash msg/ - 99k - Cached - Similar pages

UDP Minutes for Wednesday, May 26, 2004

Elevators are in glass to bring light down to the entry plaza. ... While some individual elements along the lane could be considered handsome, ... www.city.vancouver.bc.ca/commsvcs/ planning/udp/2004/minutes/may26.htm - 39k - Cached - Similar pages

Chapter 9 Page 1 - Freeway Management and Operations Handbook

HOV facilities represent just one potential element for managing the surface ... The two types of centers are on-line, which are located on the HOV lane and ... ops.fhwa.dot.gov/freewaymgmt/ freeway_mgmt_handbook/chapter9_01.htm - 39k - Cached - Similar pages

%Z ...

This lane is implemented using a central "floating" deadlock buffer resource ... transfer and scattering in one step, reading the data elements with some ... www.cs.wisc.edu/arch/www/ISCAbib/isca22.refer - 51k - Cached - Similar pages

[РРТ] Lecture 1: Course Introduction and Overview

File Format: Microsoft Powerpoint 97 - View as HTML Scalar registers: single element for FP scalar or address ... multiple queues to transfer from memory buffer to registers; check last address in queues ... american.cs.ucdavis.edu/academic/ecs201a/fred/l5.ppt - Similar pages

HCM Glossary

Crown Line. A lane marking that connects from the entrance gore area directly ... median area in a first move, then completing the entry with a second move. ... www.aatraffic.com/HCMGlossary.htm - 94k - Cached - Similar pages

JVI -- Nugent et al. 73 (1): 427

Lane P contains 0.35 fmol of full-length probe RNA, and lanes 1 to 14 ... type 1 and/or type 2 internal ribosomal entry site elements: genetic hybrids and ... jvi.asm.org/cgi/content/full/73/1/427 - Similar pages



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1 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam

September 1982 ACM Computing Surveys (CSUR), Volume 14 Issue 3

Full text available: pdf(9.17 MB)

Additional Information: full citation, references, citings, index terms

² Three-dimensional medical imaging: algorithms and computer systems

M. R. Stytz, G. Frieder, O. Frieder

December 1991 ACM Computing Surveys (CSUR), Volume 23 Issue 4

Full text available: pdf(7.38 MB)

Additional Information: full citation, references, citings, index terms, review

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

3 Integration of message passing and shared memory in the Stanford FLASH. multiprocessor



John Heinlein, Kourosh Gharachorloo, Scott Dresser, Anoop Gupta November 1994 Proceedings of the sixth international conference on Architectural

support for programming languages and operating systems, Volume 29, 28 Issue 11, 5

Full text available: pdf(1.80 MB)

Additional Information: full citation, abstract, references, citings, index terms

The advantages of using message passing over shared memory for certain types of communication and synchronization have provided an incentive to integrate both models within a single architecture. A key goal of the FLASH (FLexible Architecture for SHared memory) project at Stanford is to achieve this integration while maintaining a simple and efficient design. This paper presents the hardware and software mechanisms in FLASH to support various message passing protocols. We achieve low overhe ...

<u>Piranha: a scalable architecture based on single-chip multiprocessing</u> Luiz André Barroso, Kourosh Gharachorloo, Robert McNamara, Andreas Nowatzyk, Shaz Qadeer, Barton Sano, Scott Smith, Robert Stets, Ben Verghese May 2000 ACM SIGARCH Computer Architecture News, Proceedings of the 27th

Full text available: pdf(191,10 KB)

annual international symposium on Computer architecture, Volume 28 Issue 2 Additional Information: full citation, abstract, references, citings, index



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Efficient data-parallel files via automatic mode detection

Jason A. Moore, Philip J. Hatcher, Michael J. Quinn

May 1996 Proceedings of the fourth workshop on I/O in parallel and distributed systems: part of the federated computing research conference

Full text available: pdf(1.34 MB)

Additional Information: full citation, references, citings, index terms

Input-Output Buffering and Fortran

David E. Ferguson

January 1960 Journal of the ACM (JACM), Volume 7 Issue 1

Full text available: pdf(381.86 KB) Additional Information: full citation, index terms

3 The VMP network adapter board (NAB): high-performance network communication for multiprocessors



H. Kanakia, D. Cheriton

August 1988 ACM SIGCOMM Computer Communication Review, Symposium proceedings on Communications architectures and protocols, Volume 18 Issue

Full text available: pdf(1.63 MB)

Additional Information: full citation, abstract, references, citings, index terms.

High performance computer communication between multiprocessor nodes requires significant improvements over conventional host-to-network adapters. Current host-tonetwork adapter interfaces impose excessive processing, system bus and interrupt overhead on a multiprocessor host. Current network adapters are either limited in function, wasting key host resources such as the system bus and the processors, or else intelligent but too slow, because of complex transport protocols and because of a ...

4 Operating system benchmarking in the wake of Imbench: a case study of the performance of NetBSD on the Intel x86 architecture



Aaron B. Brown, Margo I. Seltzer

June 1997 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems, Volume 25 Issue 1

Full text available: pdf(1.98 MB)

Additional Information: full citation, abstract, references, citings, index terms

The Imbench suite of operating system microbenchmarks provides a set of portable programs for use in cross-platform comparisons. We have augmented the Imbench suite to

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L1	186	(712/204).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/09/22 15:25
L2	189	(712/206).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/09/22 15:25
S1	3	(("6691210") or ("6807628") or ("6772355")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2004/11/18 12:46
S2	35	"5680564"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/18 12:47
S3	1	("5680564").PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/18 14:13
S4	59	(stop adj1 bit\$1) near4 (instruction\$1)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/18 14:14
S5	7	(stop adj1 bit\$1) near4 (instruction\$1 near4 end\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/18 14:16
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S13	3	(variable adj1 length adj1 instruction\$1) near4 ((end or stop) adj1 bit\$1)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/18 14:35
S14	4	(variable adj1 length adj1 instruction\$1) with ((end or stop) adj1 bit\$1)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/18 14:44
S15	7	(variable adj1 length adj1 instruction\$1) same ((end or stop) adj1 bit\$1)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/18 15:07
S16	1	("5586276").PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/18 15:08
S17	1	("5450605").PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/18 15:08
S18	176	(712/206).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/22 09:11
S19	180	(712/204).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/22 09:11
S20	1	("20020087832").PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/11 16:21
S21	182	(712/206).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 14:57

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S22	184	(712/204).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 14:57
S23	0	(variable near4 length) near4 (vliw or (long adj1 instruction\$1)) near4 (instruction adj1 buffers)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 14:58
S24	88	(variable near4 length) near4 (vliw or (long adj1 instruction\$1))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:30
S25	0	(vliw or (long adj1 instruction\$1)) near4 (syllable\$1 or sub?instruction\$1) near4 issu\$3 near4 buffer\$1	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:31
S26	0	(vliw or (long adj1 instruction\$1)) near4 (syllable\$1 or sub?instruction\$1) near4 issu\$3 near4 (buffer\$3 or cach\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:31
S27	0	(vliw or (long adj1 instruction\$1)) near4 (syllable\$1 or sub?instruction\$1 or subinstruction\$1) near4 issu\$3 near4 (buffer\$3 or cach\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:31
S28	0	((vliw or (long adj1 instruction\$1)) near4 (syllable\$1 or sub?instruction\$1 or subinstruction\$1)) with (issu\$3 near4 (buffer\$3 or cach\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:32
S29	0	((vliw or (long adj1 instruction\$1)) near4 (syllable\$1 or sub?instruction\$1 or subinstruction\$1)) same (issu\$3 near4 (buffer\$3 or cach\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:32
S30	3	((vliw or (long adj1 instruction\$1)) near4 (syllable\$1 or sub?instruction\$1 or subinstruction\$1)) same (issu\$3 with (buffer\$3 or cach\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:33
S31	3	((vliw or (long adj1 instruction\$1)) near4 (syllable\$1 or sub?instruction\$1 or subinstruction\$1)) same (issu\$3 same (buffer\$3 or cach\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:34
S32	3	((vliw or (long adj1 instruction\$1)) with (syllable\$1 or sub?instruction\$1 or subinstruction\$1)) same (issu\$3 same (buffer\$3 or cach\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:34

S33	6	((vliw or (long adj1 instruction\$1)) same (syllable\$1 or sub?instruction\$1 or subinstruction\$1)) same (issu\$3 same (buffer\$3 or cach\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:36
S34	3	vliw and (Sharanpani or Hall).in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:36
S35	13	vliw and (Sharangpani or Hall).in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:37
S36	1	vliw and (Sharangpani or Hall).in. and (stop adj1 bit\$1)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/05/13 15:37
S37	1	("20020144094").PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/08/11 17:02